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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: David Wallman

Attorney Docket No.: SUN1P287/P4990

Patent: 6,820,101 B2

Issued: November 16, 2004

Title: METHODS AND APPARATUS FOR  
OPTIMIZING GARBAGE COLLECTION USING  
SEPARATE HEAPS OF MEMORY FOR  
STORING LOCAL OBJECTS AND NON-LOCAL  
OBJECTS

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on January 19, 2005 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Signed: 

Aurelia M. Sanchez

**REQUEST FOR CERTIFICATE OF CORRECTION  
OF OFFICE MISTAKE  
(35 U.S.C. §254, 37 CFR §1.322)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Attn: Certificate of Correction

**Certificate  
JAN 27 2005  
of Correction**

Dear Sir:

Attached is Form PTO-1050 (Certificate of Correction) at least one copy of which is suitable for printing. The errors together with the exact page and line number where they occur, and shown correctly in the application filed, are as follows:

**CLAIMS:**


1. In line 21 of claim 29 (column 10, line 50) delete "method". This appears correctly in Amendment D as filed on May 13, 2004 on page 7, paragraph 1, line 10.

**JAN 28 2005**

Patentee hereby requests expedited issuance of the Certificate of Correction because the error lies with the Office and because the error is clearly disclosed in the records of the Office. As required for expedited issuance, enclosed is documentation that unequivocally supports the patentee's assertion without needing reference to the patent file wrapper.

It is noted that the above-identified errors were printing errors that apparently occurred during the printing process. Accordingly, it is believed that no fees are due in connection with the filing of this Request for Certificate of Correction. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. SUN1P287).

Respectfully submitted,  
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determining whether an address of the next source code instruction is in the data structure;

when the address of the next source code instruction is in the data structure including one or more addresses of ~~source code of the method~~ one or more of the set of source code instructions that creates one or more local objects upon execution of the one or more of the set of source code instructions, creating a local object on a local heap of memory using the next source code instruction associated with the address of the next source code instruction such that local objects are stored in memory separately from non-local objects; and

when the address of the next source code is not in the data structure including one or more addresses of ~~source code of the method~~ one or more of the set of source code instructions that creates one or more local objects, creating a non-local object on a non-local heap of memory using the next source code associated with the address of the next source code such that non-local objects are stored in memory separately from local objects.

19. (Currently Amended) The method as recited in claim 1, further comprising:  
compiling the ~~method~~ set of source code instructions to generate the data structure.
20. (Currently Amended) The method as recited in claim 19, wherein the source code is generated when ~~the~~ a method is compiled.
21. (Previously Added) The method as recited in claim 20, wherein the source code comprises bytecodes.
22. (Previously Added) The method as recited in claim 3, wherein reclaiming memory is performed during garbage collection.
23. (Previously Added) . The method as recited in claim 22, wherein the garbage collection is mark and sweep garbage collection.
24. (Previously Amended) The method as recited in claim 13, further comprising:

(Also Form PT-1050)

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,820,101 B2

DATED : November 16, 2004

INVENTOR(S) : David Wallman

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

**In the Claims:**

In line 21 of claim 29 (column 10, line 50) delete "method".

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PATENT NO. 6,820,101 B2

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JAN 28 2005